

Date: 06-06-2013

K 4103

First Year MBBS Examination

I MBBS Physiology Paper 1

Time: 3 hours Max Marks: 50

Instructions: 1. Answer to the points. 2. Figure to the right indicates marks. 3. Use separate answer books for each section. 4. Draw diagrams wherever necessary. 5. Write legibly.

#### Section 1

## 1.Explain in detail: (any two) (10)

- a) Define homeostasis. Explain in detail giving 2 examples each of positive feedback and negative feedback mechanism. (A.38) (A.43)
- b) Which are various blood group systems? Write in detail about ABO blood group system
- c) Explain in detail physiological events/steps in skeletal muscle contraction.

## 2A.Write brief notes on (any two) (6)

a) Defecation reflex

c) Hazards of mis-matched blood transfusion (A.144) (B.171)

### 28. Write brief on (any one) (3)

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- a) Active transport across cell membrane
- b) What are immunoglobulin? Give its classification (A.111) (B.138)

## 3. Give brief on (any two) (6)

- a) Name various cell organelles and mention their physiological functions.
- b) Write in detail about the refractory period. What is the importance of long-refractory period in cardiac muscle action potential? (A-800) (8.70) (8.180)
- c) Functions of saliva. (A.225) (8.739)

#### Section 2

## 4.Explain in detail (any two) (10)

- www.FirstRanker.com a) Coronary circulation (A.657) (B.265)
- b) Spiro gram (A.652) (8.301)
- c) Factors affecting Heart rate

### 5A.Write briefly on (any two) (6)

- a) Compare and contrast between I and II heart sounds
- b) Draw and label structure of respiratory membrane
- c) Vital capacity (A.696) (B.301)

## 58. Write briefly on (any onc) (3)

- a) Effect of exercise on arterial blood pressure
- b) Bohr effect (A.743) (8.327)

# 6. Short explanatory objective questions any **six (6)**

- a) Give example of primary active transport
- b) What is life span of RBCs?

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- d) Which cell of gastric glands secrete Intrinsic Factor of Castle?
- e) What is function of lysozymes is saliva?
- f) What is normal value of vital capacity? (A.696) (8.301)
- g) Why polycythemia occurs in persons living at high altitude?
- h) Why S.A. node is called as pacemaker of heart?
- i) What is effect of parasympathetic system stimulation on pupils of eyes?
- j) What is normal body temperature of human beings?

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